

Wardsville - A 10-Year Case Study

Clearford's Small Bore Sewer™ (SBS™) provided an economical, operational and environmentally superior solution to Wardsville's wastewater dilemma.

Wardsville is a community in southwestern Ontario comprised of 170 homes and businesses, a large nursing home and a golf course. For several decades Wardsville had been experiencing the progressive failure of its communal and private sewage systems. Raw sewage was surfacing in the community and was contaminating local wells and storm water drainage basins that eventually discharged untreated sewage into the Thames River and other surrounding creeks. In 1999, after considerable research, Wardsville's Municipal Council selected Clearford's SBS™ wastewater collection system over a traditional "big pipe" gravity sewer.

Highlights of the Wardsville SBS™ Installation:

- Using horizontal directional drilling (HDD) technology, the project was **installed in eight months with no road closures and no detours**;
- The **capital cost of installation was \$3.1 million, compared to an estimated \$6.5 million** for a traditional gravity sewer;
- The SBS™ system was connected directly to the buildings' existing sanitary drains, **significantly reducing onsite plumbing costs to the homeowner**. Homes did not require expensive internal re-plumbing to a "big pipe" system.

The Wardsville SBS™ installation and its successful performance demonstrate that Clearford's solution is cost effective, environmentally sound, and works as designed after 10 years of operation.



"Wardsville faced the same challenge that so many communities still face today: failing septic systems, no community water service and a constrained capital and operation budget. For just over half the estimated cost of a conventional big pipe system, Clearford provided a simple, cost-effective and environmentally sensible solution to our wastewater servicing requirements."

*Mayor Doug Reycraft, Municipality
of Southwest Middlesex,
Ontario, Canada.*

"For collection systems, alternative, small diameter sewers should be used wherever possible. These systems are one of the many important developments in wastewater technology in many years. Properly used, they can represent an impressive savings over conventional sewers."

*U.S. Environmental
Protection Agency*

About Clearford Industries Inc.

Clearford Industries Inc. (TSX-V: CLI) is the developer of the patented Small Bore Sewer™ (SBS™), a watertight small diameter wastewater collection system that provides servicing with superior operational and environmental performance at a significantly lower cost when compared to historic gravity sewers. With the SBS™ as the enabling technology, Clearford delivers, on a global basis, turnkey, fixed-price wastewater collection, treatment, and energy generation solutions that are ideally suited for water-scarce regions, those with unreliable water distribution networks, and new developments seeking a greener approach to water and wastewater management.

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